## Draft MS4 General Permit IDDE Program Flow Chart\* Does the outfall catchment meet 1 of the following criteria: Part 2.3.4.8.c. through 1. Only drains roads in undeveloped areas (no dwellings) and contains no sanitary sewers 2.3.4.8.g. (inclusive) do not YES Only drains athletic fields without services apply to these catchments. 3. Only drains undeveloped green space, parkland without services Document in Annual Report 4. Contains only cross-country drainage alignments (that neither cross nor are in proximity to sanitary sewer alignments) through undeveloped land YES Is the outfall catchment ranked as a "Problem Catchment" as defined in the Draft Permit? NO Is the discharge to an area of concern to public health YES NO NO as defined in the Draft Permit OR does Does the catchment contain junction outfall/interconnection screening indicate the presence manholes? Automatically Rank as Problem Catchment of an illicit discharge as defined in the Draft Permit? YES Was Dry Weather Screening completed Was Dry Weather Screening during the 2003 permit Prioritize catchment for Catchment YES completed during the 2003 permit term consistent with the Investigation in accordance with NO term consistent with the Dry Dry Weather Screening permit condition 2.3.4.8.c. Weather Screening requirements in requirements in the Draft the Draft Permit Part 2.3.4.8.d.? Permit Part 2.3.4.8.d.? YES NO conduct outfall Screening to further prioritize Automatically Rank as High Priority and Update outfall catchment prioritization list for Complete Dry Catchment Investigation (Part 2.3.4.8.c.) based Weather Screening on Screening results (High, Low). Any Complete Dry Weather in accordance with catchment where outfall/interconnection Screening in **Draft Permit** screening indicates sewer input based on investigations accordance with Draft condition 2.3.4.8.d? olfactory/visual evidence or sampling results Permit condition $(ammonia \ge 0.5 \text{ mg/l},$ 2.3.4.8.d? surfactants $\geq 0.25$ mg/l, and bacteria levels greater than the water quality criteria Was evidence of an applicable to the receiving water; or ammonia NO $\geq 0.5$ mg/l, surfactants $\geq 0.25$ illicit connection mg/l, and detectable levels of chlorine) shall be found? ranked at the top of the High Priority YES Catchments category Complete Catchment Investigation (Part 2.3.4.8.e.) in order of prioritization (Problem then High, then Low) on the following Schedule: Year 3: Complete 80% of Problem Catchment Investigations Year 5: Complete 100% of Problem Catchment Investigations, 100% of all investigations where Baseline outfall/interconnection Screening (or other information) indicated the presence of an illicit (ammonia $\geq 0.5$ mg/l, surfactants $\geq 0.25$ mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water; or ammonia $\geq 0.5$ mg/l, surfactants $\geq 0.25$ mg/l, and detectable levels of chlorine) and 40% of the total MS4 area Catchment Investigations Year 10: Complete 100% of the total MS4 area Catchment Investigations NO Were any illicit connections found during the Catchment Investigation OR was the catchment designated as a **Problem Catchment?** Remove all illicit YES connections identified during Catchment Investigation Does catchment have wet weather vulnerabilities Conduct Dry Weather post-correction Confirmatory found during Catchment Investigation? (see table 1) Screening (Part 2.3.4.8.f.) within 1 year of removal of all identified illicit connections NO Mark Catchment YES Investigation as Complete Conduct Wet Weather Screening Was evidence of an illicit connection during the spring found during Wet or Dry Weather months (March-Conduct Follow-up Screening (Part NO Post-correction Confirmatory June) 2.3.4.8.g.) within 5 years from date of Dry Screening (if required)? OR was Weather post-correction Confirmatory evidence of an illicit connection Screening or Catchment Investigation found during Follow-up Screening? completion during dry weather. Additionally, conduct Wet Weather YES Screening within 5 years from date Catchment Investigation completion if catchment contains wet weather Re-investigate Catchment using best professional judgment to vulnerabilities found in Table 1 eliminate wet weather triggered illicit discharge or dry weather illicit discharge

## <u>Table 1 – System Vulnerability Factors</u><sup>1</sup>

- 1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages;
- 2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs;
- 3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging,
- 4. customer back-ups, or frequent customer complaints;
- 5. Common or twin-invert manholes serving storm and sanitary sewer alignments;
- 6. Common trench construction serving both storm and sanitary sewer alignments;
- 7. Crossings of storm and sanitary sewer alignments;
- 8. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 9. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
- 10. Areas formerly served by combined sewer systems;
- 11. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas;
- 12. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance);
- 13. History of multiple Board of Health actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance);

<sup>1</sup>Catchments with at least one (1) system vulnerability factor are subject to Wet Weather Screening requirements of the Draft Permit

<sup>\*</sup>Disclaimer: This IDDE and Screening flow chart is provided as guidance only. This guidance has no regulatory significance and does not represent a comprehensive description of all permit requirements. Readers should refer to the 2013 draft permit for a complete description of all permit requirements